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東京大学理学部 1 号館西棟 11 階 1109 号室 (天文学専攻会議室) にて

“Kozai-Lidov mechanism in high mass X-ray binaries”

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Gamma-ray binaries are rare and intriguing members of the high mass X-ray binary population which exhibit emission across the entire electromagnetic spectrum (i.e. from radio to very high energy gamma-rays), which is typically modulated on the orbital period. These systems comprise a massive star and a compact object of unknown nature in an eccentric orbit. To date, only five of these systems have been confirmed: PSR B1259-63, HESS J0632+057, LS 5039, 1FGL J1018.6-5856 and LS I +61 303. In this talk I will present optical spectroscopic results of high mass X-ray binaries to show the Be disc variability and how that is used to study observational signatures of the Kozai-Lidov mechanism in these systems.